

B O C A G I A N A

Museu Municipal do Funchal

Madeira

25.V.1988

No. 118

SECOND CONTRIBUTION TO THE COLEOPTEROUS FAUNA OF THE AZORES

By GÖSTA GILLERFORS *

ABSTRACT. The author presents a list of coleoptera collected in the archipelago mostly in the summer of 1986. Fourteen species were new to the Azores, two of which turned out to be new to science and have since been described. Also species new to individual islands are recorded. Biological and distributional data of certain species are given.

RESUMO. O autor apresenta uma lista de coleópteros colhidos no Arquipélago, a maioria no Verão de 1986. Catorze espécies eram novas para os Açores, duas das quais provaram ser novas para a ciência e como tal foram descritas. Também são assinaladas as espécies novas para ilhas individualmente. São fornecidos dados quanto à biologia e distribuição de certas espécies.

INTRODUCTION

In July/August of 1986 the author visited the Azores for the 3rd time. The summer of that year was dry and not so favourable for collecting, hence the amount of material gathered was moderate. Only species new to the entire archipelago or to individual islands are recorded. The islands that were visited are the following: São Miguel, Santa Maria, Terceira, Pico and Flores. Asterisks indicate species then new to the Azores.

* Maskrosstigen 23, S-43236 Varberg, Sweden.

LIST OF SPECIES

Carabidae

Benbidion harpaloides Audinet-Serville. Pico: Piedade, 27.7.1986.

Hydrophilidae

Cercyon terminatus (Marsham). Terceira: Angra, 25.7.1986.

Ptiliidae

Acrotrichis sanctaehelenae Johnson. Terceira: Doze Ribeiras, 24.7.1986.

* *A. thoracica* (Waltl) (det. Sörensson). Terceira: Doze Ribeiras, 24.7.1986. In cow dung.

A. sericans (Heer) (det. Sörensson). Flores: Santa Cruz, 31.7.1986.

A. insularis (Mäklin) (det. Sörensson). S. Maria: Pico Alto, 17.7.1986.

Actinopteryx fucicola (Allibert). S. Maria: S. Lourenço, 18.7.1986.

Among debris on the seashore.

Staphylinidae

Quedius fuliginosus Gravenhorst. S. Maria: Farropo, 19.7.1986.

Phacophallus parumpunctatus (Gyllenhal). Pico: Santo António, 27.7.1986.

Astenus longelytratus Palm. Flores: Santa Cruz, 3.8.1986.

Rugilus (Stilicus) orbiculatus (Paykull). Flores: Santa Cruz, 5.8.1986.

Medon apicalis (Kraatz). Terceira: Doze Ribeiras, 24.7.1986. In vegetable refuse.

Sunius propinquus (Brisout de Barneville). Flores: Santa Cruz, 3.8.1986. Under heaps of haulm of potatoes on tilled ground.

Lithocharis nigriceps (Kraatz). Pico: Santo António, 27.7.1986.

Chloecharis debilicornis (Wollaston). Flores: Santa Cruz, 5.8.1986.

Phloeonomus punctipennis (Thomson). Terceira: Raminho, 24.7.1986.

Carpelimus pusillus (Gravenhorst). Terceira: Serra do Cume, 27.7.1986.

Habrocerus capillaricornis (Gravenhorst). Pico: Cabecinhos, 27.7.1986.

Tachyporus nitidulus (Fabricius). Flores: Santa Cruz, 3.8.1986.

Cilea silphoides (Linnaeus). Flores: Santa Cruz, 3.8.1986. In donkey droppings.

Coproporus pulchellus (Erichson). Flores: Santa Cruz, 5.8.1986.

Phloeopora corticina Wollaston. Pico: Cabecinhos, 27.7.1986.

Aloconota sulcifrons (Stephens). Pico: Lagoa do Caiado, 26.7.1986.

Atheta divisa (Märkel). Terceira: Doze Ribeiras, 24.7.1986.

A. coriaria (Kraatz). Flores: Santa Cruz, 5.8.1986.

A. sordida (Marsham). Flores: Santa Cruz, 5.8.1986.

Amischa analis (Gravenhorst). Flores: Santa Cruz, 3.8.1986.

Oligota parva Kraatz. Terceira: Doze Ribeiras, 24.7.1986. — Flores: Santa Cruz, 5.8.1986.

O. pusillima (Gravenhorst). Flores: Santa Cruz, 5.8.1986.

Pselaphidae

Euplectus infirmus Raffay. S. Miguel: Sete Cidades, 15.7.1986. Under bark of a dead *Acacia*.

Elateridae

Alestrus dolosus (Crotch). Flores: Caldeira Comprida, 15.6.1985. One specimen was collected by sifting debris of tussocks of *Sphagnum* and *Caluna*. Probably a very rare species. Only found once before by Crotch (1867) on S. Miguel. Most certainly an endemic species.

Throscidae

Trixagus elateroides Heer. Flores: Santa Cruz, 5.8.1986. In vegetable refuse.

Malachidae

* *Clanoptilus spinosus* (Erichson) (det. Evers). S. Maria: Aeroporto. (leg. Pombo). A Mediterranean species probably recently introduced.

Nitidulidae

* *Brachypeplus pudicus* Kirejtshuk & Gillerfors (1988). S. Miguel: Furnas, 8.6.1985, 14.7.1986. Beneath bark of a recently fallen trunk of *Pitosporum undulatum*.

Carpophilus fumatus Boheman. Pico: Santo António, 27.7.1986. — Flores: Santa Cruz, 8.8.1986.

* *Meligethes planiusculus* (Heer). S. Maria: Santa Bárbara, 18.7.1986. A European species, mainly with a southern distribution.

Epuraea unicolor (Olivier). Pico: San Roque, 27.7.1986.

Monotomidae

Monotoma spinicollis Aubé. Flores: Santa Cruz, 5.8.1986.

M. picipes Herbst. Flores: Santa Cruz, 31.7.1986. In donkey droppings.

Cucujidae

* *Silvanus lateritius* (Broun) (det. Halstead). S. Maria: Covões, 10.8.1983. Chã de João Tomé, 21.7.1986. Beneath bark of *Acacia*. This species was erroneously reported as *unidentatus* (Fabricius) in my paper of 1986. Cosmopolitan (Halstead 1973).

Cryptolestes pusillus (Schönherr) (det. Ratti). Pico: San Roque, 27.7.1986. Sitting on the walls of the hotel in the evening. Cosmopolitan.

Phalacridae

* *Phalacrus politus* Melsheimer (det. Thompson). Terceira: Angra, 25.7.1986. This species occurs widely in the United States and is also found on Jamaica (Thompson in litt.).

* *Olibrus liquidus* Erichson. S. Miguel: Ribeira Grande, 13.7.1986. Distributed in central and southern Europe.

Latridiidae

Corticaria elongata (Gyllenhal). Terceira: Doze Ribeiras, 24.7.1986.

Cisidae

Atlantocis gillerforsi Israelson. Flores: Caldeira Comprida, 4.8.1986. Collected by sifting decaying and spongy branches of *Laurus*.

Mycetophagidae

* *Berginus tamarisci* Wollaston. Pico: Santo António, 27.7.1986. Under spongy bark of logs of *Pinus*. A Mediterranean species.

Litargus pilosus Wollaston. Flores: Santa Cruz, 5.8.1986.

Anthicidae

Omonadus floralis (Linnaeus). Flores: Santa Cruz, 5.8.1986.

Tenebrionidae

* *Alphitobius diaperinus* (Panzer) (det. Ferrer). S. Maria: Aeroporto, July 1986 (leg. Pombo). Cosmopolitan.

Chrysomelidae

Epithrix hirtipennis Melsham. Terceira: Angra, 25.7.1986.

Curculionidae

* *Graphognathus peregrinus* (Buchanan) (det. O'Brien). Flores: Santa Cruz, 1.8.1986. Sitting on walls in the town especially in the evening. Ame-

rican. This species was described in 1939 from the southern United States. According to O'Brien it has almost certainly been introduced from South America where all the remaining species of the genus originated. It is very common in Florida feeding on ornamental plants around the houses. (Buchanan 1947, Young et al. 1950).

* *Orthochaetes insignis* Aubé (det. Dieckmann). Flores: Santa Cruz, 6.8.1986. In a heap of grass-cuttings. A common Mediterranean species.

* *Tychius picirostris* (Fabricius). Terceira: Doze Ribeiras, 24.7.1986. Swept on *Lotus*. A common European species.

Pissodes castaneus (Degeer) (*notatus* Fabricius). Pico: Santo António, 27.7.1986. On pine logs.

Ceutorhynchus assimilis (Paykull). Terceira: Doze Ribeiras, 24.7.1986.

Scolytidae

Hylurgus ligniperda (Fabricius). Pico: Santo António, 27.7.1986. Under bark of pine logs.

Phloeosinus gillerforsi Bright (1988). S. Miguel: Furnas, 29.7.1983. Under bark of dead *Thuja*. — Pico: Cab. do Teixo, 25.6.1985. Collected by beating brushwood of *Juniperus*. Most certainly an endemic species.

* *Orthotomicus erosus* Wollaston. Pico: San Roque, 27.7.1986. Under bark of pine logs. Distributed mainly in southern Europe and Canary Islands.

Xyleborus saxeseni (Ratzeburg). S. Maria: Aeroporto, July 1986 (leg. Pombo).

DISCUSSION

When the species here recorded were introduced to the islands is most difficult to tell. Some of them are for certain old inhabitants, some are most probably endemics such as *Alestrus dolosus*, *Atlantocis gillerforsi* and *Phloeosinus gillerforsi*. Many are cosmopolitan such as for instance many members of the *Staphylinidae*, *Silvanus lateritius* and *Cryptolestes pusillus*. Most of the species are introduced from Europe, often probably via the Canary Islands. Only a few of the species in the Azores seem to be coming from America, in my list *Acrotrichis insularis*, *Phalacrus politus* and *Graphognathus peregrinus*.

It is significant that so many species new to the archipelago in general are found around the airport on S. Maria. Certainly this must be due to the importation of goods.

The results of this excursion were poor however they show that the coleopterous fauna in the archipelago has been far from completely investigated. The evidence for this is that 14 species turned out to be new to the entire archipelago 2 of which new to science, 8 species were new to Santa Maria, 4 to São Miguel, 13 to Terceira, 14 to Pico and 23 to Flores.

ACKNOWLEDGEMENT

I want to express my thanks to my friend Barbro Silverberg for her pleasant company during our stay in the Azores. For their help with the identification of certain species I am most grateful to the following specialists: Dr. L. Dieckmann, Eberswald, Dr. A. Evers, Krefeld, Dr. J. Ferrer, Hadden, Dr. G. H. Halstead, Slough, Prof. Ch. O'Brien, Tallahassee, Dr. E. Ratti, Venice, Dr. R. T. Thompson, London and Mr. M. Sörensson, Lund. I am also grateful to Mr. D. Pombo, S. Maria who has placed certain specimens at my disposal.

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Received 26th Jan. 1988

BOCAGIANA

Museu Municipal do Funchal

Madeira

22.II. 1963

No. 9

NOTES ON TWO MADEIRA PLANTS

By N. C. H. KRAUSS ¹

The composite plant «Abundância» (*Eupatorium adenophorum* Spreng.) has been known in Madeira for many years. On July 24, 1962 I collected a second species of *Eupatorium*, *E. riparium* Schultz-Bip., confirmed by the Royal Botanic Garden, Kew, England. This was growing in association with *E. adenophorum* in a damp area along a path near Monte. Both these species of *Eupatorium* are native to Mexico. I have seen *E. riparium* growing along a small stream in a ravine at the Desierto de los Leones, Distrito Federal, in the hills above Mexico City. Both species are pests in grazing land in Hawaii.

On November 7, 1960 I collected specimens of *Ulex minor* Roth (determined by Royal Botanic Garden, Kew) in the grassy hills above Ribeiro Frio. Since then I have seen it also at Encumeada and Santo da Serra. *Ulex europaeus* L. has been known in Madeira for a long time, but I have not seen any records of *U. minor*.

1) Entomologist, Hawaii State Department of Agriculture, Honolulu 14, Hawaii, U. S. A.